UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,346,103 B2
APPLICATION NO. : 10/748544
DATED : March 18, 2008
INVENTOR(S) : Ariela Zeira

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON THE TITLE PAGE

Item (56), OTHER PUBLICATIONS, page 1, right column, line 11, on line beginning with "Misra et al.", after the word "Hybrid", insert --of--.

At column 2, line 6, after the word "vector", delete "r" and insert therefor --$\underline{r}$--.

At column 2, line 39, after the word "vector", delete "r" and insert therefor --$\underline{r}$--.

At column 2, line 41, after the word "segments", delete "$r_1 \ldots r_n$" and insert therefor --$\underline{r}_1 \ldots \underline{r}_n$--.

At column 2, line 42, after the word "vector", delete "r" and insert therefor --$\underline{r}$--.

At column 2, line 44, after the word "vector", delete "r" and insert therefor --$\underline{r}$--.

At column 2, line 45, after the first use of the word "segments", delete "$r_1 \ldots r_n$" and insert therefor --$\underline{r}_1 \ldots r_n$--.

At column 2, line 45, after the words "only segments", delete "$r_1, r_2, r_3, r_4, r_5, r_6, r_7, r_8$" and insert therefor --$\underline{r}_1, \underline{r}_2, \underline{r}_3, \underline{r}_4, \underline{r}_5, \underline{r}_6, \underline{r}_7, \underline{r}_8$--.

At column 2, line 46, before the word "shown", delete "r_9" and insert therefor --$\underline{r}_9$--.

At column 2, lines 47 & 48, after the words "overlap is", delete "preferably twice the length the impulse response less one chip, 2*(W-1)" and insert therefor --at least two chips less than twice an impulse response length--.

At column 2, line 54, after the words "interest of", delete "r_2" and insert therefor --$\underline{r}_2$--.

At column 3, line 18, after the word "segment", delete "r_i" and insert therefor --$\underline{r}_i$--.

At column 3, line 20, after the word "segments", delete "$r_i, x_{il}, \ldots, x_{iK}\_1$" and insert therefor --$\underline{r}_i, \underline{x}_{il}, \ldots \underline{x}_{iK-1}$--.

At column 3, line 21, after the word "vectors", delete "$s_{il}, s_{i2}, \ldots, s_{iK}$" and insert therefor --$\underline{s}_{il}, \underline{s}_{i2}, \ldots, \underline{s}_{iK}$--.

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At column 3, line 23, after the word "vectors", delete "s_{i1}, s_{iK}, ..., s_{iK}" and insert therefor --$\underline{s}_{i1}$, $\underline{s}_{i2}$, ..., $\underline{s}_{iK}$--.

At column 3, line 25, after the word "vectors", delete "d_{i1}, d_i2 , ..., d_{iK}" and insert therefor --$\underline{d}_{i1}$, $\underline{d}_{i2}$, ..., d_{iK}--.

At column 3, line 28, after the words "contributions", delete "r_{i1}, r_{i2}, ..." and insert therefor --$\underline{r}_{i1}$, $\underline{r}_{i2}$, ...--.

At column 3, line 29, after the word "vector", delete "s_{i1}, s_{i2}, ..." and insert therefor --$\underline{s}_{i1}$, $\underline{s}_{i2}$, ...--.

At column 3, line 31, after "butions", delete "r_{i1}, r_{i2}, ..." and insert therefor --$\underline{r}_{i1}$, $\underline{r}_{i2}$, ...--.

At column 3, line 32, after the word "segments", delete "r_i, x_{i1}, ..." and insert therefor --$\underline{r}_i$, $\underline{x}_{i1}$, ...--.

At column 3, line 35, after the word "segment", delete "r_i is equalized by a" and insert therefor --$\underline{r}_i$ is equalized by an--.

At column 3, line 37, after the word "vector", delete "s_{i1}" and insert therefor --$\underline{s}_{i1}$--.

At column 3, line 41, after the word "vector", delete "d_{i1}" and insert therefor --$\underline{d}_{i1}$--.

At column 3, line 43, after "mined", delete "r_{i1}" and insert therefor --$\underline{r}_{i1}$--.

At column 3, line 45, after the word "segment", delete "x_{i1}" and insert therefor --$\underline{x}_{i1}$--.

At column 3, line 48, after the word "symbols", delete "d_{i2}" and insert therefor --$\underline{d}_{i2}$--.

At column 3, line 49, after the word "vector", delete "S_{i2}" and insert therefor --$\underline{s}_{i2}$--.

At column 3, lines 50 & 51, after the words "user 2 to", delete "X_{i1}, r_{i2}" and insert therefor --$\underline{x}_{i1}$, r_{i2}--.

At column 3, line 53, after the word "segment", delete "x_{iK-1} which is vector r_i" and insert therefor --$\underline{x}_{iK-1}$ which is vector $\underline{r}_i$--.

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At column 3, line 55, after the word "symbols", delete "d_{iK}" and insert therefor --$\underline{d}_{iK}$--.

At column 3, line 56, after the word "vector", delete "s_{iK}" and insert therefor --$\underline{s}_{iK}$--.

At column 3, line 59, before the word "signals", delete "users" and insert therefor --user's--.

At column 4, line 2, before the word "data", delete "groups" and insert therefor --group's--.

At column 4, line 6, after the words "such as", delete "d_i" and insert therefor --$\underline{d}_i$--.

At column 4, line 11, after the words "vector", delete "d" and insert therefor --$\underline{d}$--.

At column 4, line 14, after the word "segment 1", delete "d_{11}" and insert therefor --$\underline{d}_{11}$--.

At column 4, line 15, after the word "segment 2", delete "d_{12}" and insert therefor --$\underline{d}_{12}$--.

At column 4, line 17, after the word "vector", delete "r" and insert therefor --$\underline{r}$--.

At column 4, line 19, after the word "segmented", delete "$r_1 \ldots r_n$" and insert therefor --$\underline{r}_1 \ldots \underline{r}_n$--.

At column 4, line 32, after the word "vector", delete "d" and insert therefor --$\underline{d}$--.

At column 4, line 42, delete Equation 1, and insert therefor --$\underline{r}_i = H\underline{s} + \underline{n}$--.

At column 4, line 44, after the word "matrix", delete "n is the noise vector. s" and insert therefor --$\underline{n}$ is the noise vector. $\underline{s}$--.

At column 4, line 47, after the words "for the", delete "d" and insert therefor --$\underline{d}$--.

At column 4, line 49, delete Equation 2, and insert therefor --$\underline{s} = C\underline{d}$--.

At column 4, line 52, after the word "segment", delete "r_i" and insert therefor --$\underline{r}_i$--.

At column 4, line 57, delete Equation 4A, and insert therefor --$\underline{\hat{s}}_i = (H_s{}^H H_s + \sigma^2 I_s)^{-1} H_s{}^H \underline{r}_i$--.

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At column 4, line 61, before the word "operation", delete "Hermetian" and insert therefor --Hermitian--.

At column 4, line 64, delete Equation 4B, and insert therefor --$\underline{\hat{s}}_i = (H_s^{H}H_s)^{-1}H_s^{H}\underline{r}_i$--.

At column 4, line 67, delete Equation 5, and insert therefor --$\underline{\hat{s}}_i = R_s^{-1}H_s^{H}\underline{r}_i$--.

At column 5, line 35, before the word "product", delete "kronecker" and insert therefor --Kronecker--.

At column 5, line 37, after the word "vector", delete "F($\hat{s}$)" and insert therefor --F($\underline{s}$)--.

At column 5, line 38, after the word "vector", delete "$\hat{s}$" and insert therefor --$\underline{\hat{s}}$--.

IN THE CLAIMS

At claim 1, column 5, lines 41 & 42, after the word "signals", delete "in a wireless communication system, the method".

At claim 7, column 6, lines 1 & 2, after the word "signals", delete "in a wireless communication system, the method".

At claim 22, column 7, line 18, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 28, column 7, line 52, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 34, column 8, line 19, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 40, column 8, line 51, after the word "each", delete "segment" and insert therefor --segment's--.

At claim 41, column 8, line 56, after the word "equalize", delete "equalizing".

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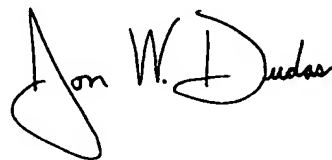
At claim 46, column 9, line 18, before the word "determined", delete "segments" and insert therefor --segment's--.

At claim 52, column 9, line 51, after the word "each", delete "segment" and insert therefor --segment's--.

At claim 58, column 10, line 19, before the word "determined", delete "segments" and insert therefor --segment's--.

Signed and Sealed this

Fifteenth Day of July, 2008

JON W. DUDAS
Director of the United States Patent and Trademark Office